

REMARKS

Claims 1 - 5 were previously pending in this application. By this amendment, claims 2 - 5 are canceled and new claims 6 - 12 are added. Claim 1 is amended. As a result, claims 1 and 6 - 12 are pending for examination with claim 1 being an independent claim. No new matter is added.

I. Rejections Under 35 U.S.C. §112 Are Overcome

Claims 1-5 were rejected under 35 U.S.C. second paragraph as being indefinite. In particular, the claims were rejected for the phrase “such as” as found previously in claim 1. By this amendment, the phrase “such as” is deleted from claim 1. Claim 1 is also amended in other regards to clarify aspects of the claimed subject matter. Accordingly, withdrawal of this rejection is respectfully requested.

II. Rejections Under 35 U.S.C. § 102 Are Overcome

The Office Action rejects claims 1-5 under 35 U.S.C. § 102(b) as being anticipated by U.S. Patent No. 5,864,297 (Sollestre). Claim 1 is amended to overcome this rejection. Claims 2 - 5 are canceled thereby obviating their rejection.

A. Overview of the Invention

As described in Applicants’ specification, the present invention, in various embodiments, relates to a remote control system that includes a transmitter and a receiver. An identification code is included in each transmitter (encoder device), which is preset and built in during manufacturing. The receiver can memorize ID codes in the electronically erasable programmable read-only memory (EEPROM) or flash read-only memory (ROM). Once the ID code is memorized in the receiver, it will not be lost or changed, even if there is a power supply interruption. However, if necessary, the ID code in the receiver can be reprogrammed or the ID code in a new receiver can be programmed to match an existing transmitter in the event that a receiver is lost or otherwise needs to be replaced. (See generally page 2, lines 14-21).

The transmitter and receiver communicate through a data stream that is 1.2 seconds long. The data stream conforms to a quadric code format, and includes a quadric address code (ID code).

(See generally page 6, lines 6-11). By way of example, FIG. 4 shows an example of data in a quadric format. Here, the timing position of a pulse is used to represent one of four different states, shown in FIG. 4 as code zero, code one, code two, or code three. This is different than data arranged in a binary format, where only two different states are possible, as represented by the presence or absence of a pulse. There are several benefits to the quadric code format, including but not limited to a reduction in a power acquired to transmit the same amount of information as compared to a binary format.

The foregoing summary is provided merely to assist the Examiner in appreciating various aspects of the present invention. However, each of the claims presently under consideration is not limited to the various concepts described in the summary. Therefore, the Examiner is respectfully requested to give careful consideration to the language of each of the claims and to address each on its own merits.

B. Independent Claim 1

As amended, independent claim 1 defines a general short-range remote control system that comprises, among other features, a transmitter device having a factory pre-set communication protocol that includes data arranged in a four quadric or higher format, the communication protocol adapted to remain unchanged in response to power supply interruption and adapted to be read or written or re-written to store a quadric or higher ID code from the transmitter device during a programming mode. The transmitter device is adapted to generate a 1.2 second data stream including the quadric or higher ID code to be received by the receiver, the 1.2 second data stream conforms to the communication protocol and includes data arranged in a four quadric or higher format.

C. Sollestre Reference

Sollestre discloses a reprogrammable remote keyless entry system. The system includes a transmitter and a receiver that utilize binary data, in serial form (*See* generally Col. 6, lines 5-6). To the contrary, independent claim 1 recites a transmitter device that is adapted to generate a 1.2 second data stream including a quadric or higher ID code to be received by a receiver. The 1.2

second data stream conforms includes data arranged in a four quadric or higher format. Nowhere does Sollestre teach or disclose data arranged in a quadric format. Instead, Sollestre discloses a transmitter and a receiver that utilize binary data. Independent claim 1, and any claims depending therefrom, distinguish Sollestre in at least this regard. Accordingly, withdrawal of the rejection of independent claim 1 is respectfully requested.

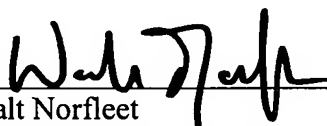
III. New Claims 6-12 Further Define Aspects of the Invention

Each of new claims 6-12 further define aspects of the invention and are patentable over the art of record for at least the same reasons described above with respect to independent claim 1. Accordingly, allowance of these claims is respectfully requested.

In view of the above amendment, applicant believes the pending application is in condition for allowance.

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Respectfully submitted,

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